

A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 H04H5/00 H04B1/16

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
IPC 7 H04H H04B

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the International search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ, INSPEC

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 5 357 544 A (HORNER THOMAS G ET AL) 18 October 1994 (1994-10-18)	1-8, 12-14
Y	column 3, line 59 - column 5, line 23; figures 1,2	9-11
Y	US 5 404 405 A (COLLIER KEVIN T ET AL) 4 April 1995 (1995-04-04) cited in the application column 4, lines 56-67; figure 1	9-11
A	US 5 442 709 A (VOGT LOTHAR ET AL) 15 August 1995 (1995-08-15) the whole document	1,12-14
A	US 5 416 843 A (HOPKINS HARLAND G) 16 May 1995 (1995-05-16) the whole document	1,12-14

☐ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

* Special categories of cited documents :

A document defining the general state of the art which is not considered to be of particular relevance

E earlier document but published on or after the international filing date

L document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

O document referring to an oral disclosure, use, exhibition or other means

P document published prior to the international filing date but later than the priority date claimed

T later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

X document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

Y document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.

G document member of the same patent family

Date of the actual completion of the international search

4 November 2004

Date of mailing of the international search report

18/11/2004

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Patent document cited in search report		Publication date	Patent family member(s)	Publication date
US 5357544	A	18-10-1994	NONE	
US 5404405	A	04-04-1995	NONE	
US 5442709	A	15-08-1995	DE 4303387 A1 AT 180933 T DE 59408318 D1 EP 0609666 A1 ES 2134861 T3 JP 6318921 A KR 263573 B1	11-08-1994 15-06-1999 08-07-1999 10-08-1994 16-10-1999 15-11-1994 01-08-2000
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